

Review

Test 2 Pre AP Chemistry Matter/ Atomic Structure

Density = mass/ vol. Density_{H₂O} = 1 g/mL % composition= part/ whole x 100

1. Fusion is the term for which phase change?
2. Device used for the discovery of the electron, findings, how experiment was conducted.
3. Matter can be subdivided into mixtures and pure substances, what are the **two (2)** further division of a mixture we discussed in class.

Homogenous and heterogeneous

4. If 15.01g of ethanol C₂H₅OH, (density = 0.789g/ml) was dissolved in 75.0ml of water, what is the % (v/v) composition of the solution? Volumes are summative! (**SHOW WORK**)

~16%

5. State **two (2)** observations or occurrences of a chemical change.

Questions 6-7 refer to the *Separation of a Homogeneous solution*

8. An Erlenmeyer flask weighs **30.00g**. When filled w/ H₂O, the flask weighs 230.00g. The density of H₂O is 1 g/cm³. How much does the flask weigh when filled w/ hexane (D= 0.6548 g/ml)? (**SHOW WORK**)

160.96g